



LOUISIANA STATE UNIVERSITY



# Tigerboard



version 2006.0

**Doc Lap Nguyen** Health Sciences Center

NEW ORLEANS

LSU Eye Center





# Outline

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- Introduction
- Motivations
- Program Overview
- More Demonstrations
- Known Bugs & Limitations
- Additional Work
- Acknowledgments
- Questions



# Introduction

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- Common collaborative uses of the AG
  - Formal
    - Meetings, presentations, research, etc
    - Lectures, seminars, training, demos, etc.
  - Informal
    - Brainstorming, Q & A, Interactions, etc.
- Benefits
  - Travel time, Cost savings, Productivity
- Requires Interactive Applications



# Introduction

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- Survey of shared whiteboard/presentation
  - Hardware
    - SmartBoard, eBeam
    - Document Camera, etc.
    - Scan Converter
    - Wall Camera
  - Software
    - NetMeeting, InSORS, etc.
    - wb, Media Lecture Board (MLB), etc.
    - AG Shared Presentation, Browser, etc.
    - VNC





# Limitations

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- Both Hardware & Software
  - Scattered solutions
    - Not integrated with the AG
  - Not easy to use
    - Not reliable enough
  - Less than perfect results
    - Low resolution, Slow response time
  - Costs more money



# Motivations

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- Should Include The Best Features
  - Whiteboard
    - Hardware and Software
  - AG Shared Presentation & Browser
  - View Documents & Images
  - VNC
  - Jabber
  - AG-VCR



# Motivations

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- All-in-One Application
  - ❑ Simple to use
  - ❑ Integrated with the AG
  - ❑ Fast response time
  - ❑ High resolution
  - ❑ Reliable
  - ❑ Give users many features
  - ❑ Cheap
- Too GREEDY??



# Program Overview



- Combines Python and Java



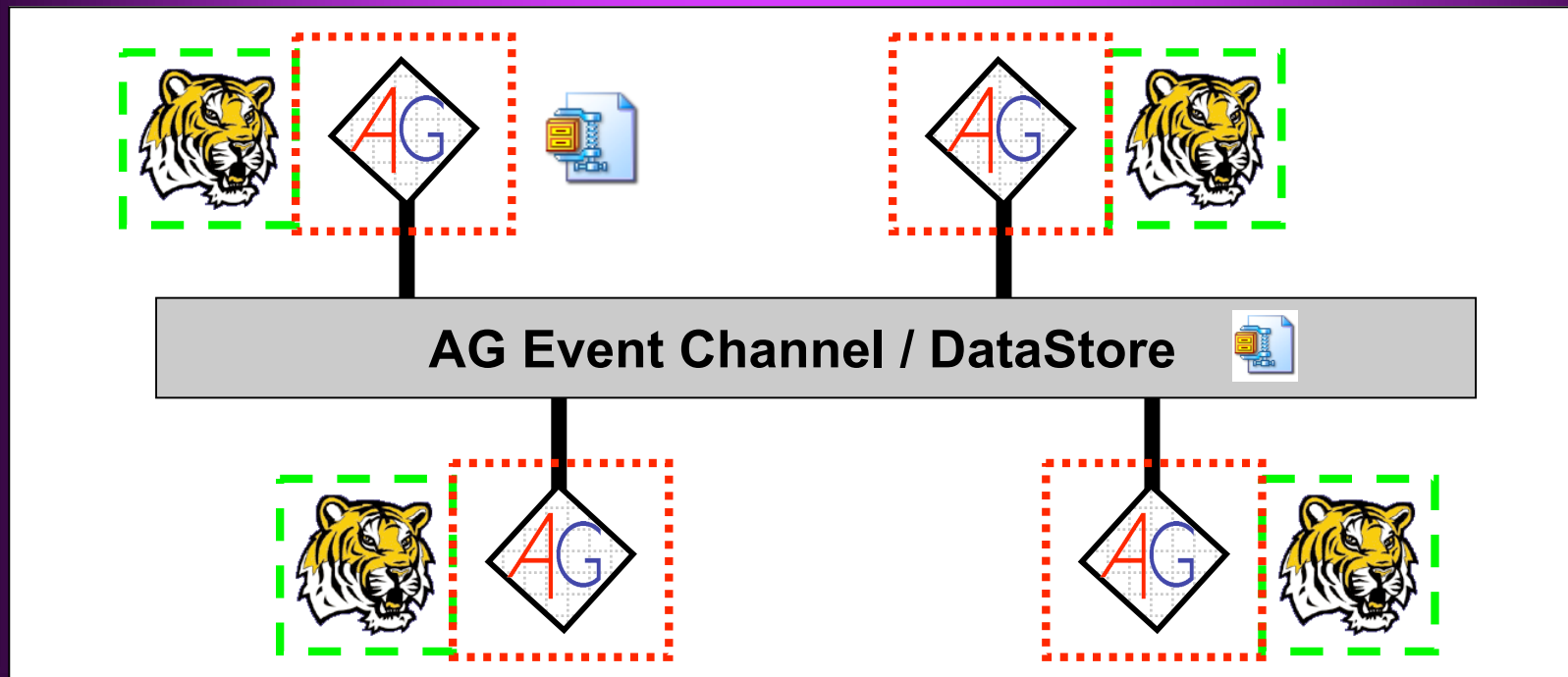




# Program Overview



- Peer-to-Peer Architecture
  - Sends/Receives Messages
  - Uses AG's DataStore for files

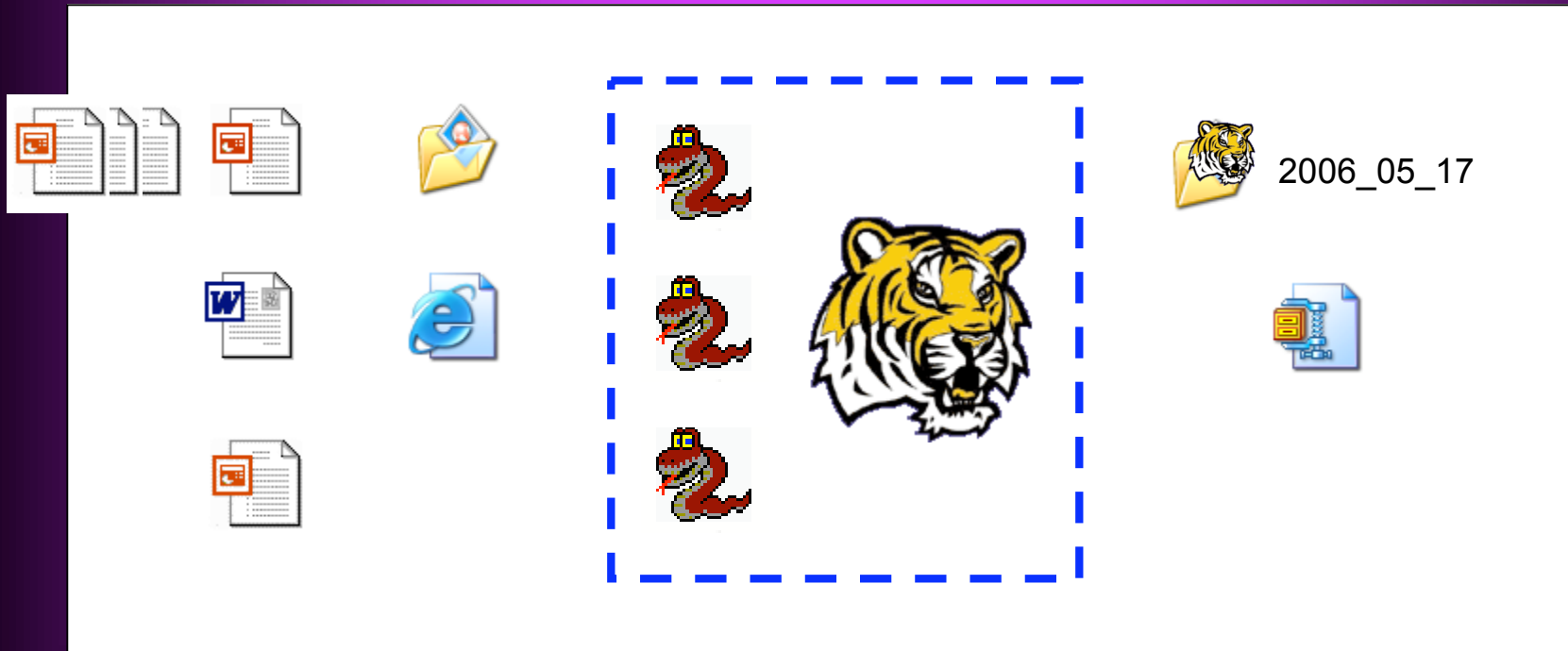




# Program Design



- All files saved locally
  - Works with PowerPoint and Word files
    - Imported as images or HTML files

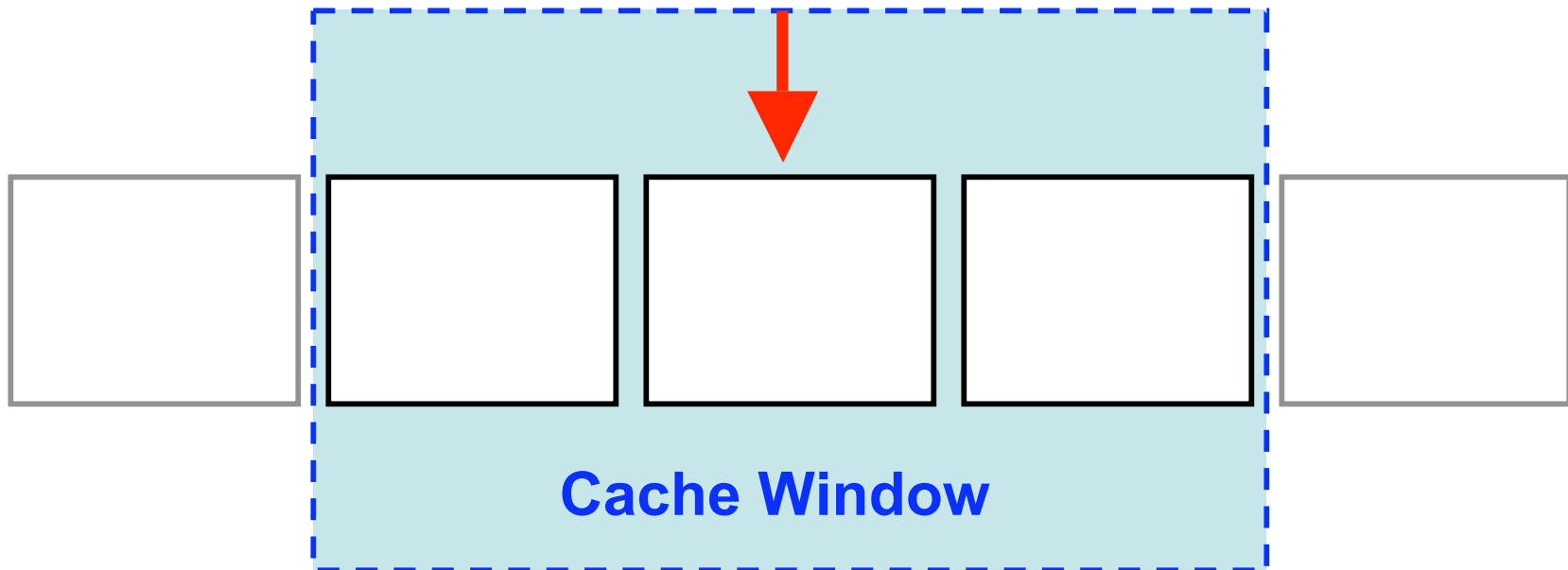




# Program Cache



- Pages loaded as needed
  - Usually only 2-3 files stored in memory





# Demonstration

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- Already done:
  - Whiteboard
  - Presentation
- Will demonstrate:
  - Load Images
    - File or Screen Capture
  - Load Document / Web Browsing
  - Replaying a Session
  - Saving / Archival
  - Recovering from Catastrophic Failure

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# Program Limitations

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- Hardware/Software requirements:
  - Windows
  - Latest Java installation
  - AGtk 2.4
  - 1GB of RAM or more
  - PowerPoint & Word installed
- Other OS platforms coming soon...



# Program Limitations

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- PowerPoint related:
  - PPT should be loaded ahead of time
  - No animations / transitions
- Word related:
  - May lose original format
- Web Browsing related:
  - May not load up certain websites
  - Font changes may not always work
  - Only a viewer



# Known Bugs

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- Python related (AG):
  - Log file rollover problem
    - 10 MB limit
  - Not entirely thread-safe
- Java related:
  - Don't know...need more Beta testing.





# Additional Work

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- Port to other OS's
- Improve replay performance / features
- View PDF's
- View Movie files
- Too GREEDY again??!!



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# Thank you!!!

Disclaimer: No tigers were harmed during the making of this application.

## QUESTIONS

